

Integrating Github & Jenkins



Step 1:- Create Job in Jenkins

1.

Enter an item name

» Required field

2.



Freestyle project

This is the central feature of Jenkins. J... system, and this can be even used for s...



Maven project

Build a maven project. Jenkins takes ad... configuration.

1. Enter the name for the job.

For Eg: tutorial

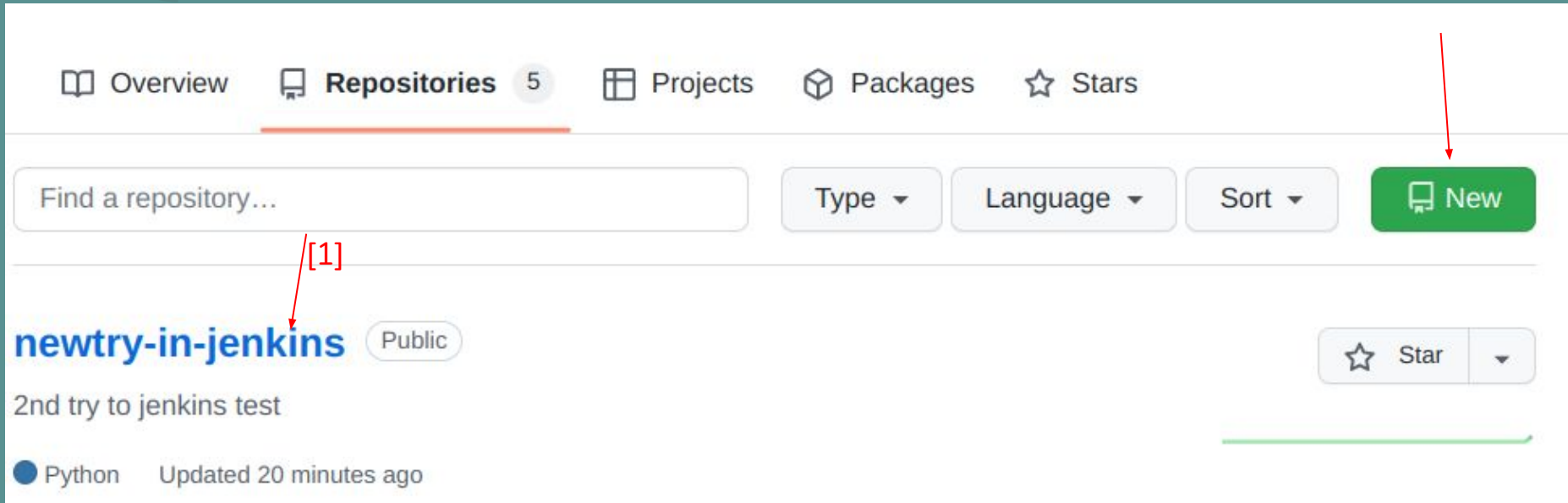
2. Choose the project type.

There are various option for the project types like: Freestyle, Maven, Pipeline, Multi-configuration etc.

Normally we choose freestyle project because it can be used to build almost any type of project but other projects can't do.

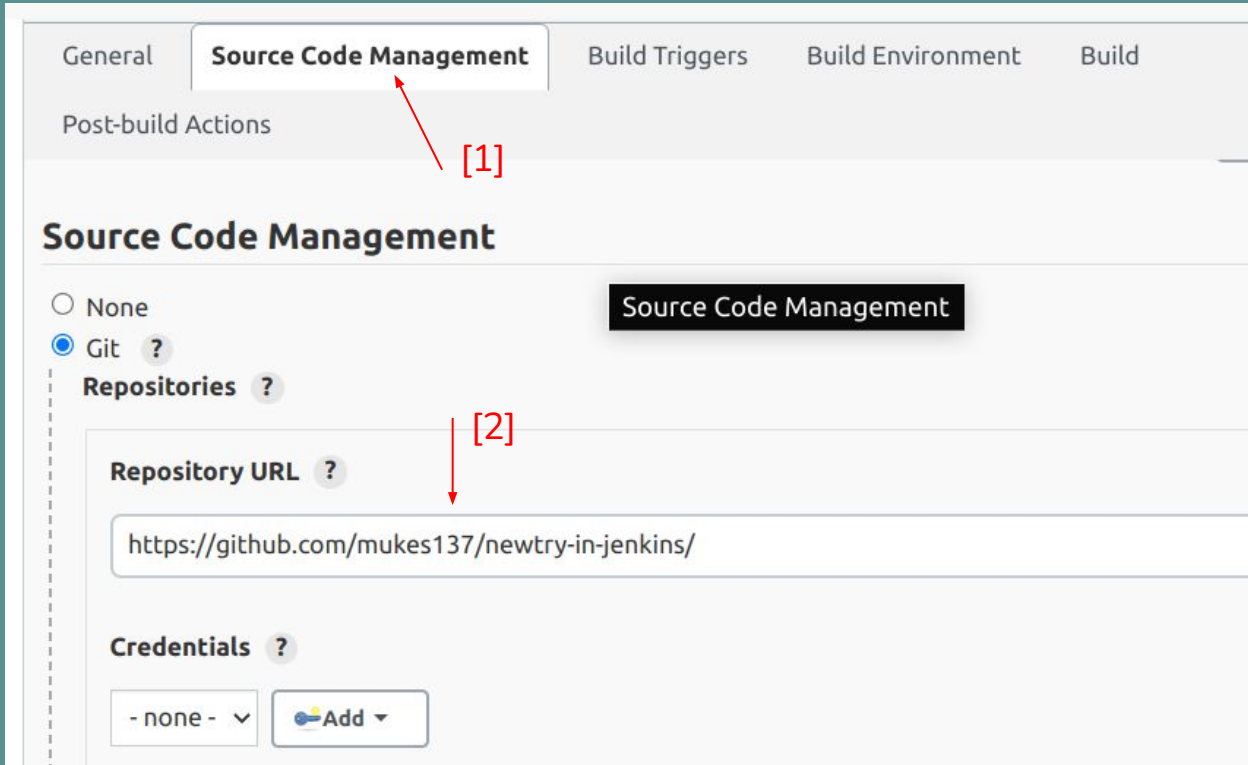
Then press OK.

Step 2:- Create Github repository



Click on the new option to create the repository.
Here, I have created repository [1]

Step 3:- Linking github with jenkins



The screenshot shows the Jenkins configuration page for 'Source Code Management'. The 'Source Code Management' tab is selected, indicated by a red arrow and the label [1]. Below the tabs, the 'Git' option is selected under 'Source Code Management'. Under 'Repositories', the 'Repository URL' field is highlighted with a red arrow and the label [2]. The URL entered is 'https://github.com/mukes137/newtry-in-jenkins/'. The 'Credentials' section shows a dropdown menu with '- none -' and an 'Add' button.

General **Source Code Management** Build Triggers Build Environment Build

Post-build Actions

Source Code Management

☐ None **Source Code Management**


☒ Git ?

Repositories ?

Repository URL ?

<https://github.com/mukes137/newtry-in-jenkins/>

Credentials ?

- none - ▾ 

Click to the option [1]

Then we paste the link of the repository of github [2]

Step 4:- Specify the branch

Branches to build ?

Branch Specifier (blank for 'any') ?

*/barud

Add Branch

Repository browser ?

Save

Apply

Specify the branch in which the job to be compiled is specified.

Step 5:- Run the job

Back to Dashboard

Status

Changes

Workspace

Build Now

Configure

Delete Project

Rename

Build History

trend ^

Project barud

Workspace

Recent Changes

Permalinks

- [Last build \(#1\), 2 min 39 sec ago](#)
- [Last failed build \(#1\), 2 min 39 sec ago](#)
- [Last unsuccessful build \(#1\), 2 min 39 sec ago](#)
- [Last completed build \(#1\), 2 min 39 sec ago](#)

Running the job means to build.

Jenkins compiles the job configuration inside the project workspace to perform the defined steps.

Step 6:- Building process

Build History trend ^

[1]

✓ #3
| Jun 22, 2022, 11:05 AM

✗ #2
| Jun 22, 2022, 11:04 AM

✗ #1
| Jun 22, 2022, 11:01 AM

[2] [Atom feed for all](#)
[Atom feed for failures](#)

We can watch the Build History in order to check whether our build process succeeded or not.

[1] denotes that the build process succeeded.

[2] denotes that the build process failed.

Other features after integration

 Back to Project

 Status

 Changes

 Console Output

 Edit Build Information

 Delete build '#3'

 Git Build Data

 Previous Build

 **Build #3 (Jun 22, 2022, 11:05:58 AM)**

 Add description

Keep this build forever

Started 31 min ago
Took **1.8 sec**

 No changes.

 Started by user [Mukesh Awasthi](#)

 **git**

Revision: 3e7f129cb8ba186b7dcf9fe049de78bfcde62ee6
Repository: <https://github.com/mukes137/newtry-in-jenkins/>

- refs/remotes/origin/barud

We can perform more other task after build is completed.

- If the build fails or succeeds we can edit the build information about build name and add description.
- We can view the console output for the build.
- We can delete the build.